

CLAIMS

1. A solid electrolyte fuel cell comprising a laminate of a limited fuel-permeating part, an anode collector, an anode catalyst layer, a solid electrolyte membrane, a cathode catalyst layer, a cathode collector and an evaporation inhibiting layer in sequence,

5 wherein the evaporation inhibiting layer is made of a material having venting pores and covers at least part of the surface of the cathode collector.

2. The solid electrolyte fuel cell as claimed in Claim 1, wherein the evaporation inhibiting layer comprises a layer consisting of a sheet of laminated fibrous materials.

3. The solid electrolyte fuel cell as claimed in Claim 1, wherein the evaporation inhibiting layer is made of a porous material.

4. The solid electrolyte fuel cell as claimed in Claim 3, wherein the porous material is a foam metal or polytetrafluoroethylene.

5. The solid electrolyte fuel cell as claimed in Claim 1, wherein the evaporation inhibiting layer is comprised of a punching plate.

6. The solid electrolyte fuel cell as claimed in Claim 5, wherein the punching plate is made of a metal material.

7. The solid electrolyte fuel cell as claimed in any of Claims 1 to 6, wherein a container reserving a liquid fuel supplied to an anode side is placed adjacently to the limited fuel-permeating part.

8. The solid electrolyte fuel cell as claimed in Claim 7, wherein the container comprises a fuel-absorbing member which is placed adjacently to a part of the limited fuel-permeating part and absorbs the liquid fuel; and

5 a part which is not adjacent to the fuel-absorbing member in the limited fuel-permeating part comprises a gas discharging part for discharging a gas generated by a cell reaction.